

## ARTIFACT SHEET

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Indicate quantity of a single type of artifact received but not scanned. Create individual artifact folder/box and artifact number for each Artifact Type.

CD(s) containing:

computer program listing

Doc Code: Computer

Artifact Type Code: P

pages of specification

and/or sequence listing

and/or table

Artifact Type Code: S

Doc Code: Artifact content unspecified or combined

Doc Code: Artifact

Artifact Type Code: U

Stapled Set(s) Color Documents or B/W Photographs

Doc Code: Artifact Artifact Type Code: C

Microfilm(s)

Doc Code: Artifact Artifact Type Code: F

Video tape(s)

Doc Code: Artifact Artifact Type Code: V

Model(s)

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Doc Code: Artifact Artifact Type Code X

Other, description:

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# The United States of America



AP90-157

## The Commissioner of Patents and Trademarks

*Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this*

### United States Patent

*Grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.*

*Bruce Lehman*

Commissioner of Patents and Trademarks

*Mayouie V. Turner*

*Attest.*



US005465156A

**United States Patent** [19]**Arai**[11] **Patent Number:** 5,465,156[45] **Date of Patent:** Nov. 7, 1995[54] **FACSIMILE MACHINE HAVING PRINTER  
UNIT AND INTERFACE**

4,827,349	5/1989	Ogata .....	358/256
5,268,770	12/1993	Yukino .....	358/442 X
5,383,030	1/1995	Seo .....	358/442
5,398,305	3/1995	Yawata et al. .....	395/115 X

[75] **Inventor:** Yoshihiro Arai, Isehara, Japan[73] **Assignee:** Ricoh Company, Ltd., Tokyo, Japan[21] **Appl. No.:** 38,646[22] **Filed:** Mar. 29, 1993[30] **Foreign Application Priority Data**

Mar. 30, 1992 [JP] Japan ..... 4-103540

[51] **Int. Cl. 6** ..... H04N 1/00; H04N 1/32[52] **U.S. Cl.** ..... 358/296; 358/442[58] **Field of Search** ..... 358/296, 400,  
358/401, 442, 443, 444, 468; 395/110,  
112, 115, 116, 118, 128, 150; 400/61, 70,  
76[56] **References Cited**

## U.S. PATENT DOCUMENTS

4,652,933 3/1987 Koshiishi ..... 358/442 X

*Primary Examiner*—Peter S. Wong*Assistant Examiner*—Eric Frahm*Attorney, Agent, or Firm*—Oblon, Spivak, McClelland,  
Maier & Neustadt[57] **ABSTRACT**

A facsimile machine includes a printer unit for printing out data having a predetermined format, and an interface circuit for converting facsimile image data into recording data having a format in which the printer unit can input the recording data and for supplying the recording data to the printer unit. The printer unit includes a printing portion for printing recording data, and a data supply control circuit for supplying the recording data from the interface circuit to the printing portion at predetermined printing intervals.

10 Claims, 13 Drawing Sheets

